

**GOVERNMENT COLLEGE OF ENGINEERING, JALGAON****(An Autonomous Institute of Government of Maharashtra)**

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Name of Examination : **Summer 2021** - (Preview)Course Code & Course Name : **ME252U - Advanced Manufacturing Processes**Generated At : **19-04-2022 15:06:39**Maximum Marks : **60**Duration : **3 Hrs**[Edit](#)[Print](#)[Close](#)**Answer Key Submission Type:** No marking scheme and solution

Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

- 1) Solve the following (Compulsory)
Derive various force relations obtained from Merchant's force circle [6]
- 2) Solve any three questions of the following
 - a) Explain tool geometry of single point cutting tool [6]
 - b) Describe various operations of press machine [6]
 - c) Describe Gear Shaping process [6]
 - d) Describe construction and working of AJM [6]
- 3) Solve any three questions of the following
 - a) Differentiate between Compound and Combination die [6]
 - b) Draw a neat sketch of internal Broach and explain it's parts [6]
 - c) Describe applications of LBM [6]
 - d) What is NC and CNC? Explain various elements of NC/CNC. [6]
- 4) Write short notes on (any three)
 - a) Economics of Metal cutting [6]
 - b) Die accessories [6]
 - c) ECM [6]
 - d) Gear finishing process [6]

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